

## AUTOMATIC ANTENNA DIODE INSERTION FOR INTEGRATED CIRCUITS

ABSTRACT

Automatic antenna diode insertion for integrated circuits is described. In an example, at least a portion of an integrated circuit is defined by a block of standard cells selected from a cell library. A diode circuit is associated with at least one input port of the block of standard cells to form an augmented block. The augmented block is then implemented on a chip to form the integrated circuit. In another example, an integrated circuit is formed by associating a diode circuit with each primary input port of an embedded logic circuit that defines a portion of the integrated circuit. A remaining portion of the integrated circuit is defined by existing logic circuitry. Components of the embedded logic circuit are placed on a chip and conductors are routed connecting the components. The embedded logic circuit is then integrated with the existing circuitry onto the chip.